

Application No. 10/654,661
Response to Office Action of September 14, 2005

AMENDMENTS TO THE CLAIMS

1-64. (Cancelled)

65. (Original) A process for preparing a resin, the process comprising reacting reactants at elevated temperature, the reactants comprising rosin, fatty acid, aldehyde and phenolic compound that is at least trifunctional with respect to reactivity with aldehyde, where the phenolic compound that is at least trifunctional constitutes at least 25 wt% of all phenolic compounds used to form the resin.

66. (Original) The process of claim 65 wherein phenol constitutes at least 35 wt% of the phenolic compounds.

67. (Original) The process of Claim 65 wherein phenol constitutes at least 55 wt% of the phenolic compounds.

68. (Currently Amended) The process of Claim 65 wherein the rosin constitutes ~~up to~~ from 35 to 85 wt% of the reactants.

69. (Original) The process of Claim 68 wherein the rosin constitutes 35-70wt% of the reactants.

70. (Currently Amended) The process of Claim 65 wherein the fatty acid constitutes ~~up to~~ from 5 to 65wt% of the reactants.

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71. (Original) The process of Claim 70 wherein the fatty acid constitutes 5-40wt% of the reactants.
72. (Currently Amended) The process of Claim 65 wherein the aldehyde constitutes ~~up to~~ from 2 to 40wt% of the reactants.
73. (Original) The process of Claim 72 wherein the aldehyde constitutes 5-15wt% of the reactants.
74. (Currently Amended) The process of Claim 65 wherein the phenolic compound(s) constitute ~~up to~~ from 1 to 50wt% of the reactants.
75. (Original) The process of Claim 74 wherein the phenolic compound(s) constitute 5-15wt% of the reactants.
76. (Original) The process of Claim 65 wherein the fatty acid comprises Tall Oil Fatty Acid (TOFA).
77. (Original) The process of Claim 65 wherein the fatty acid comprises Monomer.
78. (Original) The process of Claim 65, wherein the aldehyde comprises formaldehyde.

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79. (Original) The process of Claim 65, wherein the rosin comprises gum rosin.
80. (Original) The process of Claim 65, wherein the rosin comprises tall oil rosin.
81. (Original) The process of Claim 65, wherein the reactants further comprise polyol.
82. (Currently Amended) The process of Claim 81, wherein the polyol constitutes ~~up to~~ from 1 to 15wt% of the reactants ~~components~~.
83. (Original) The process of Claim 82, wherein the polyol comprises pentaerythritol.
84. (Original) The process of Claim 65, wherein the reactants further comprise an α,β -olefinically unsaturated carbonyl compound.
85. (Currently Amended) The process of Claim 84, wherein the α,β -olefinically unsaturated carbonyl compound constitutes ~~up to~~ from 0.1 to 8wt% of the reactants ~~components~~.
86. (Original) The process of Claim 85, wherein the α,β -olefinically unsaturated carbonyl compound comprises maleic anhydride.

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87-94. (Cancelled)

95. (Original) A resin prepared by the process of claim 65.

96. (Original) A varnish comprising a resin prepared by the process of claim 65 and a solvent.

97. (Original) The varnish of claim 96, wherein the solvent is a hydrocarbon.

98. (Original) A lithographic ink comprising a resin of claim 95.

99. (Original) A gravure ink comprising a resin of claim 95.

100. (Currently Amended) A process for preparing a resin, the process comprising reacting reactants at elevated temperature, the reactants comprising resin acid, fatty acid, aldehyde, and phenolic compounds that is at least trifunctional with respect to reactivity with aldehyde, where the fatty acid contributes at least 5% of the weight of the listed reactants, the phenolic compound that is at least trifunctional constitutes at least 25 wt% of all phenolic compounds used to form the resin, and the resin has a softening point of at least 105°C.

101. (Original) The process of Claim 100, wherein the resin has a softening point of at least 120°C.

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102. (Original) The process of claim 100, wherein the ~~fatty acid~~ contributes at least 15wt% of the weight of the listed reactants.

103. (Original) The process of claim 100, wherein the fatty acid contributes at least 20wt% of the weight of the listed reactants.

104-105. (Cancelled)

106. (New) A resin, prepared by the process of Claim 100.

107. (New) A varnish comprising the resin of Claim 106 and a solvent.

108. (New) The varnish of claim 107, wherein the solvent is a hydrocarbon.

109. (New) A lithographic ink comprising a resin of claim 106.

110. (New) A gravure ink comprising a resin of claim 106.